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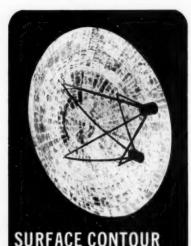
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Decreasing the rms error of a radio reflector surface from 1/10 wavelength to 1/20 wavelength can improve gain by more than 5 db.... almost equal to doubling the reflector

diameter!

dba's exclusive Photogrammetric Structural Measurements Service is the most accurate and versatile method known for measuring surface conformity. This technique utilizes precision photography, followed by analytical photogrammetric triangulation on computers using special dba developed programs. Antenna down time is just a few hours. Accuracies of one part in 60,000 of the reflector's diameter are routinely provided, with accuracies in excess of one part in 100,000 achievable.



Typical Errors Contour Map

0.02-ft. contour interval; 300-ft. dia. reflector

dba surface contour calibration can be applied to any size ground-based or space antenna. Calibration may be performed in vacuum chambers, during shake tests, and under extreme thermal conditions. Dynamic and static calibrations can be compared in order to pinpoint motion-induced deformation.

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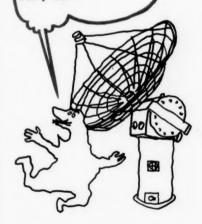
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